

PORTABLE BOW PRESS FOR COMPOUND BOWS WITH EITHER TWO PIECE LIMBS OR ONE PIECE LIMBS

Abstract

This invention is a inexpensive light weight portable compound bow press that is safer and easier to use. A bow press with a greater mechanical advantage, to be used in the complete maintenance of high powered compound bows having either two piece limbs or one piece limbs. This invention consists of a first and second extending member. Each extending member engages and cooperates with the outer most portion of one of the bow's limbs. Each extending member extends over and away from the outer ends of the bow's limbs. The first end of a liner adjusting device is adjustably connected to the first extending member at a central position near the outer edge of the first extending member. The second end of the adjusting apparatus is adjustably connected to the second extending member at a central position near the outer edge of the second extending member. This arrangement positions the adjusting apparatus outside of and away from, the compound bow, allowing for safer and easier use. Shortening the adjusting device exerts an inward force on the extending members. The extending members apply an inward force to the outer ends of the bow's limbs, thus flexing the entire length of the limbs. The distance the extending member extends past the end of the bow limb provides a mechanical advantage that reduces the stress on the adjusting device allowing for the maintenance of high powered bows with lighter weight components. The bow's limbs are flexed inward and locked against their flex action. The bow's string and cables relax and can be removed. The adjusting device can be lengthened until all flex of the bow's limbs is eliminated. The bow press can be removed and the bow can be disassembled. Assembly of the bow requires reversing this procedure.